

INTERNATIONAL SEARCH REPORT

International Application No

PCT/EP 03/13172

A. CLASSIFICATION OF SUBJECT MATTER
IPC 7 H04S1/00 H04S3/00

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 H04S H04B H04N G11B

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, WPI Data, PAJ

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	WO 98/55998 A (KONINKL PHILIPS ELECTRONICS NV ;PHILIPS SVENSKA AB (SE)) 10 December 1998 (1998-12-10) page 1, lines 1-3	1,3
A	page 3, line 14 - page 7, line 1	2,4
X	PATENT ABSTRACTS OF JAPAN vol. 1996, no. 06, 28 June 1996 (1996-06-28) -& JP 08 031096 A (MATSUSHITA ELECTRIC IND CO LTD), 2 February 1996 (1996-02-02)	1,3
A	abstract; figures 1-6	2,4
A	EP 1 021 044 A (THOMSON BRANDT GMBH) 19 July 2000 (2000-07-19) page 2, line 48 - page 3, line 1 page 3, line 33 - page 5, line 21	1-4
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☒ Further documents are listed in the continuation of box C.

☒ Patent family members are listed in annex.

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Date of the actual completion of the international search

2 June 2004

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16/06/2004

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C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	<p>PATENT ABSTRACTS OF JAPAN vol. 2002, no. 06, 4 June 2002 (2002-06-04) -& JP 2002 044543 A (ALPINE ELECTRONICS INC), 8 February 2002 (2002-02-08) abstract</p> <p>-----</p>	1-4

INTERNATIONAL SEARCH REPORT

International Application No

PCT/EP 03/13172

Patent document cited in search report		Publication date	Patent family member(s)	Publication date
WO 9855998	A	10-12-1998	AT 244920 T	15-07-2003
			BR 9804955 A	24-08-1999
			CN 1123885 B	08-10-2003
			DE 69816242 D1	14-08-2003
			DE 69816242 T2	27-05-2004
			EP 0920698 A2	09-06-1999
			HU 0001912 A2	28-10-2000
			WO 9855998 A2	10-12-1998
			JP 2001505348 T	17-04-2001
			US 6694030 B1	17-02-2004
JP 08031096	A	02-02-1996	NONE	
EP 1021044	A	19-07-2000	EP 1021044 A1	19-07-2000
			CN 1260671 A ,B	19-07-2000
			EP 1020998 A2	19-07-2000
			JP 2000236543 A	29-08-2000
			US 6487528 B1	26-11-2002
JP 2002044543	A	08-02-2002	NONE	